

# WEST Search History





DATE: Friday, March 16, 2007

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
	<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L11	L10 and L6	5
<input type="checkbox"/>	L10	L9 and @ad<20010316	10
<input type="checkbox"/>	L9	L8 and (dna or cdna or nucleic acid or polynucleotide or vector or host)	22
		L7 and (Dextranucrase or 1,6 Glucan synthetase or gtfC glucosyltransferase or gtfD glucosyltransferase or gtfG glucosyltransferase or gtfS glucosyltransferases or GTF 1 or GTF C or	
<input type="checkbox"/>	L8	GTF SI or GtfU or Glucosyltransferase S or Oligo isomaltosaccharide synthase or Streptococcal glucosyltransferase or Streptococcal glucosyltransferase GTF S or Sucrose 6 glucosyltransferase or Sucrose 1,6 alpha glucan glucosyltransferase)	51
<input type="checkbox"/>	L7	Leuconostoc mesenteroides	823
<input type="checkbox"/>	L6	L5 or l4 or l3 or l2 or l1	41742
<input type="checkbox"/>	L5	(536/23.2)!.ccls.	15540
<input type="checkbox"/>	L4	(435/320.1)!.ccls.	33499
<input type="checkbox"/>	L3	(435/252.3)!.ccls.	11342
<input type="checkbox"/>	L2	(435/193)!.ccls.	2391
<input type="checkbox"/>	L1	(435/183)!.ccls.	5489

END OF SEARCH HISTORY

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN  
RN 9032-14-8 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN Glucosyltransferase, sucrose-1,6- $\alpha$ -glucan (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN  $\alpha$ -1,6-Glucan synthetase  
CN Dextranucrase  
CN E.C. 2.4.1.5  
CN Gene gtfC glucosyltransferase  
CN Gene gtfD glucosyltransferase  
CN Gene gtfG glucosyltransferase  
CN Gene gtfS glucosyltransferases  
CN Glucosyltransferase GTF-1  
CN Glucosyltransferase GTF-C  
CN Glucosyltransferase GTF-SI  
CN Glucosyltransferase GtfU  
CN Glucosyltransferase-S  
CN Oligo-isomaltosaccharide synthase  
CN Streptococcal glucosyltransferase  
CN Streptococcal glucosyltransferase GTF-S  
CN Sucrose  $\alpha$ 1 $\rightarrow$ 6-glucosyltransferase  
CN Sucrose 6-glucosyltransferase  
CN Sucrose-1,6- $\alpha$ -glucan glucosyltransferase  
CN Sucrose:glucan  $\alpha$ 1 $\rightarrow$ 6-glucosyltransferase  
MF Unspecified  
CI MAN  
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS,  
CASREACT, CHEMCATS, CHEMLIST, CSCHM, EMBASE, IFICDB, IFIPAT, IFIUDB,  
PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL, VTB

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

818 REFERENCES IN FILE CA (1907 TO DATE)

12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

819 REFERENCES IN FILE CAPLUS (1907 TO DATE)

**Database: ENZYME****Entry: 2.4.1.5**

ENTRY            EC 2.4.1.5                            Enzyme  
NAME            dextranucrase;  
                 sucrose 6-glucosyltransferase;  
                 SGE;  
                 CEP;  
                 sucrose-1,6-alpha-glucan glucosyltransferase  
CLASS            Transferases  
                 Glycosyltransferases  
                 Hexosyltransferases  
SYSNAME        sucrose:1,6-alpha-D-glucan 6-alpha-D-glucosyltransferase  
REACTION       sucrose + (1,6-alpha-D-glucosyl)n = D-fructose +  
                 (1,6-alpha-D-glucosyl)(n+1) [RN:R02120 R06066]  
ALL\_REAC       R02120 R06066(G)  
SUBSTRATE      sucrose [CPD:C00089];  
                 (1,6-alpha-D-glucosyl)n [CPD:C00372]  
PRODUCT       D-fructose [CPD:C10906];  
                 (1,6-alpha-D-Glucosyl)n+1 [CPD:C00372]  
REFERENCE      1  
                 Bailey, R.W. Transglucosidase activity of rumen strains of  
                 Streptococcus bovis. 2. Isolation and properties of dextranucrase.  
                 Biochem. J. 72 (1959) 42-49.  
                 2  
                 Bailey, R.W., Barker, S.A., Bourne, E.J. and Stacey, M.  
                 Immunopolysaccharides. Part VI. The isolation and properties of the  
                 dextranucrase of Betacoccus arabinosaceus. J. Chem. Soc. (Lond.)  
                 (1957) 3530-3536.  
                 3  
                 Hehre, E.J. Enzymic synthesis of polysaccharides: a biological type  
                 of polymerization. Adv. Enzymol. Relat. Subj. Biochem. 11 (1951)  
                 297-337.  
PATHWAY        PATH: map00500 Starch and sucrose metabolism  
                 PATH: map02020 Two-component system - General  
ORTHOLOG       KO: K00689 dextranucrase  
GENES           SAA: SAUSA300\_0939  
                 LLM: llmg\_0458  
                 SMU: SMU.1004(gtfB) SMU.1005(gtfC) SMU.910(gtfD)  
                 SSA: SSA\_0613(gtfP)  
                 LSL: LSL\_1517  
                 CHU: CHU\_1410  
DBLINKS        IUBMB Enzyme Nomenclature: 2.4.1.5  
                 ExPASy - ENZYME nomenclature database: 2.4.1.5  
                 ERGO genome analysis and discovery system: 2.4.1.5  
                 BRENDA, the Enzyme Database: 2.4.1.5  
                 CAS: 9032-14-8

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DBGET integrated database retrieval system, GenomeNet

=> d full his

(FILE 'HOME' ENTERED AT 16:49:45 ON 16 MAR 2007)

L1 FILE 'REGISTRY' ENTERED AT 16:50:20 ON 16 MAR 2007  
1 SEA ABB=ON PLU=ON 9032-14-8/RN

FILE 'HCAPLUS' ENTERED AT 16:50:36 ON 16 MAR 2007

L2 FILE 'REGISTRY' ENTERED AT 16:50:51 ON 16 MAR 2007  
SET SMARTSELECT ON  
SEL PLU=ON L1 1- CHEM : 20 TERMS  
SET SMARTSELECT OFF

L3 FILE 'HCAPLUS' ENTERED AT 16:50:51 ON 16 MAR 2007  
977 SEA ABB=ON PLU=ON L2

FILE 'REGISTRY' ENTERED AT 16:51:11 ON 16 MAR 2007  
D L1

L4 FILE 'HCAPLUS' ENTERED AT 16:51:12 ON 16 MAR 2007  
326 SEA ABB=ON PLU=ON L3 (L) (LEUCONOSTOC MESENTEROIDES)  
L5 19 SEA ABB=ON PLU=ON L4 (L) (DNA OR CDNA OR NUCLEIC ACID OR  
POLYNUCLEOTIDE OR VECTOR OR HOST)  
L6 0 SEA ABB=ON PLU=ON L5 AND PD<200103  
L7 9 SEA ABB=ON PLU=ON L5 AND PD<20010316